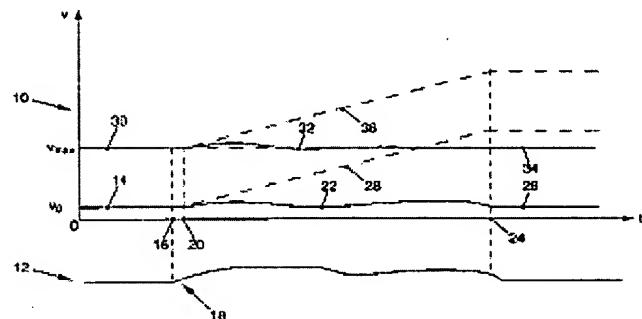


**Control system for automatic transmission for road vehicle, allows switching of supplementary gearbox from high to low range while moving with given increase in engine speed during given time****Patent number:** DE10246298**Publication date:** 2004-04-15**Inventor:** ALTENKIRCH MANFRED (DE); STEGMANN ULRICH (DE); SCHMIDT REINER (DE); SCHREIBER WOLFGANG (DE); THEINERT MICHAEL (DE)**Applicant:** VOLKSWAGENWERK AG (DE)**Classification:**- **international:** B60K31/00; B60K41/26- **european:** B60K23/08B; B60K31/10; B60T7/12**Application number:** DE20021046298 20021002**Priority number(s):** DE20021046298 20021002**Also published as:** WO2004033244 (A1)**BEST AVAILABLE COPY****Report a data error here****Abstract of DE10246298**

The control system allows switching of the supplementary gearbox from high to low range while moving at low speed ( $v_0$ ) or high speed ( $V_{max}$ ) with given increase in engine speed during given time. During the gear change, the engine speed is increased (28,36) from the high gear speed to the low gear speed during a given time period (16-24). A clutch is disengaged at a short time (20) after initiation of the gear change. Pressure may be applied to the vehicle brakes (18) to control vehicle speed (22,32) if the gear change is made while descending an incline under engine braking.

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